

ABSTRACT OF THE INVENTION

A method of fabricating a catadioptric lens system, the method involving: fabricating a single catadioptric lens element having a bottom surface and an upper surface, the upper surface having a convex portion and a concave portion, both the 5 convex and concave portions sharing a common axis of symmetry; cutting apart the catadioptric lens element to form $2n$ pie-shaped segments, wherein n is an integer; and reassembling the $2n$ pie-shaped segments to form the catadioptric lens system with n of the $2n$ pie-shaped segments being located above a common plane and the rest of the $2n$ pie-shaped elements being below the common plane.